

Quick Look at Live Attenuated Influenza Vaccine, Quadrivalent (LAIV4)

Annual influenza vaccination is recommended for all persons 6 months of age and older, including all healthy persons!

Indications for Use and Schedule

- LAIV4 (intranasal) is for persons aged **2 through 49 years** who:
 - Are healthy
 - Are not pregnant
- Begin vaccinating as soon as flu vaccine is available and continue throughout the flu season until vaccine expires

Key Points

- **No** preference for any flu vaccine product for any age group
 - Ensure vaccination occurs with an **age-appropriate dose**
- Some children aged 6 months through 8 years may need 2 doses of 2018-19 seasonal flu vaccine to best protect them
- Persons aged 9 years and older only need 1 dose of flu vaccine, regardless of previous flu vaccination history

Information on which children aged 6 months through 8 years need 2 doses of flu vaccine:

- Children aged 6 months through 8 years who received at least 2 doses of any trivalent or quadrivalent seasonal flu vaccine (e.g., IIV3, IIV4, LAIV3, LAIV4, cclIV3, cclIV4) before July 1, 2018, only need 1 dose of 2018-19 flu vaccine
- If a child has not received at least 2 trivalent or quadrivalent flu vaccine doses before July 1, 2018, administer 2 doses of 2018-19 flu vaccine separated by 4 weeks
- Refer to “Who Needs 2 Doses of 2018-19 Seasonal Influenza Vaccine?” at www.michigan.gov/flu

Contraindications (persons who should not receive LAIV4):

- Serious allergic reaction (e.g., anaphylaxis) to a previous dose of flu vaccine or one of its components
- Concomitant aspirin- or salicylate-containing therapy in children and adolescents
- Children aged 2 through 4 years with a history of asthma or documented wheezing episode in the past 12 months
- Immunocompromised due to any cause, including immunosuppression caused by medications or by HIV infection
- Close contacts and caregivers of severely immunosuppressed persons who require a protected environment
- Pregnancy
- Receipt of influenza antiviral medication within the previous 48 hours

Administration¹

- Administer **intranasal** 0.2 mL
 - Spray 0.1 mL into **each nostril** as indicated by dose-divider clip on sprayer
 - Use 0.2 mL dose for all ages 2-49 years
- Can be given with all other vaccines—do not miss an opportunity
- If LAIV4 is not given on the same day as other live vaccines (MMR, Var, MMRV), separate by 28 days
- For more on LAIV4 administration, refer to “Administering Influenza Vaccines” at www.michigan.gov/flu

Storage and Handling:

- Store in the refrigerator unit at 36°F - 46°F (2°C - 8°C)
- Stand-alone purpose built storage units preferred
- Do **not** freeze; keep in original box with lid on/protect from light
- Do **not** use expired vaccine
- LAIV4 expiration dates differ from other flu vaccine expiration dates

Precautions (in certain circumstances, persons may receive LAIV4):

- Moderate or severe acute illness with or without fever
- History of Guillain-Barré Syndrome (GBS) within 6 weeks of previous flu vaccination
- Asthma in persons aged 5 years and older
- Other underlying medical conditions that might predispose to complications after influenza infection (e.g., chronic pulmonary, cardiovascular [except isolated hypertension], renal, hepatic, neurologic, hematologic, or metabolic disorders [including diabetes mellitus])

Further points to consider:

- **Note:** For persons who report an egg allergy of any severity, administer any licensed, recommended, and age-appropriate flu vaccine (inactivated influenza vaccine [IIV], recombinant influenza vaccine [RIV], or LAIV4) that is otherwise appropriate for the person's health status. If the person reports a reaction to eggs other than hives, administer flu vaccine in a medical setting in which a healthcare provider with experience in recognition and management of severe allergic conditions is immediately available.
 - Use of LAIV4 for persons with egg allergy of any severity was approved in February 2016 following review of data from three studies evaluating use of LAIV in egg-allergic children, in which no cases of anaphylaxis occurred.
 - Refer to "2018-19 Influenza Vaccine Screening for Persons who Report Egg Allergy" at www.michigan.gov/flu
- Begin vaccinating as soon as flu vaccine is available and **continue throughout the flu season** (until vaccine expires)
- LAIV4 can be given with all other vaccines; for more information, refer to www.cdc.gov/flu
- Use current LAIV Vaccine Information Statement (VIS) with details about the Michigan Care Improvement Registry (MCIR); Michigan VIS are posted at www.michigan.gov/immunize
- Document LAIV4 on vaccine administration record and record card as "LAIV4"

¹ For more information, see Advisory Committee on Immunization Practices (ACIP) General Best Practice Guidelines for Immunization at www.cdc.gov/vaccines/hcp/acip-recs/general-recs/index.html. For further guidance on influenza vaccine recommendations, refer to "Prevention and Control of Seasonal Influenza with Vaccines: Recommendations of the ACIP—U.S., 2018-19 Influenza Season," MMWR Recomm Rep 2018;67(No. RR-3):1-20, and "Update: ACIP Recommendations for the Use of Quadrivalent Live Attenuated Influenza Vaccine (LAIV4)—U.S., 2018-19 Influenza Season," MMWR 2018;67(22):643-645, located at www.cdc.gov/mmwr.

Publicly purchased flu vaccine can be administered to eligible children through the Vaccines for Children (VFC) program; contact your local health department.

For more information regarding flu vaccination, contact your local health department, visit Michigan Department of Health and Human Services at www.michigan.gov/flu, or visit www.cdc.gov/flu or www.cdc.gov/mmwr.